This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A pallet construction for an annular cooler forming a gas permeable surface for supporting and transporting material during processing thereof, the pallet construction comprising:

a pallet deck having a series of substantially parallel rows of spaced apart elongated slots, each of the slots in a row being staggered with respect to the slots in an adjacent row in the series, wherein the slots define apertures through the pallet deck; and

a support frame supporting the pallet deck and having at least one angular brace oriented at an acute angle with respect to the rows of slots, the support frame includes a framework comprised of an arcuate-shaped outer frame member, an arcuate-shaped inner frame member concentric with outer frame member, a leading frame member extending between the outer frame member and the inner frame member, a trailing frame member extending between the outer frame member and the inner frame member, a plurality of spaced apart horizontal brace members disposed between the leading and trailing frame members and extending between the outer frame member and the inner frame member and the inner frame member, and a plurality of angular cross braces which interconnect the inner, outer, leading and trailing frame members with the horizontal brace members and intersect said horizontal brace members at an acute angle.

- 2. (Original) The pallet construction of claim 1, wherein the elongated slots in each of the rows in the series are longitudinally aligned.
- 3. (Original) The pallet construction of claim 1, wherein the support frame comprises at least one horizontal brace member extending substantially transverse to the rows of slots.
 - 4. (Canceled)
- 5. (Currently Amended) The pallet construction of claim 1, wherein <u>each of</u> the support frame further comprises a plurality of horizontal brace members extending

<u>extends</u> substantially transverse to the rows of slots and <u>a-each of the plurality</u> of angular brace members <u>each intersecting intersects</u> with at least one of the horizontal brace members.

- 6. (Original) The pallet construction of claim 1, wherein the pallet deck comprises a relatively flat plate member having an arcuate-shaped outer edge, an arcuate-shaped inner-edge concentric with said outer edge, a leading edge and a trailing edge configured so that said deck forms a truncated circular segment.
- 7. (Original) The pallet construction of claim 1, further comprising: at least one shaft extending from the support frame, the shaft for coupling the pallet construction to a conveyor frame.
- 8. (Original) The pallet construction of claim 7, wherein the support frame further comprises a series of aligned bearings for supporting at least one shaft.
- 9. (Original) The pallet construction of claim 1, further comprising:
 two shafts extending in opposite directions from the support frame, the shafts for
 coupling the pallet construction to a conveyor frame.
- 10. (Original) The pallet construction of claim 9, wherein the two shafts are offset from a longitudinal centerline of the pallet construction.
 - 11. (Original) The pallet construction of claim 1, further comprising: means for movably supporting the support frame in a conveyor system.
- 12. (Original) The pallet construction of claim 1, wherein the support frame is attached to the pallet deck by bevel welding.
- 13. (Currently Amended) A pallet construction for an annular cooler forming a gas permeable surface for supporting and transporting material during processing thereof, the pallet construction comprising:

a pallet deck having a series of substantially parallel rows of spaced apart longitudinally aligned elongated slots, each of the slots in a row being staggered with respect to the slots in an adjacent row in the series, wherein the slots define apertures through the pallet deck;

a support frame supporting the pallet deck-and having a plurality of horizontal brace members extending substantially transverse to the rows of slots and a plurality of angular brace members each intersecting at an acute angle with at least one of the horizontal brace members, the support frame includes a framework comprised of an arcuate-shaped outer frame member, an arcuate-shaped inner frame member concentric with outer frame member, a leading frame member extending between the outer frame member and the inner frame member, a trailing frame member extending between the outer frame member and the inner frame member, a plurality of spaced apart horizontal brace members disposed between the leading and trailing frame members and extending between the outer frame member and the inner frame member, and a plurality of angular cross braces which interconnect the inner, outer, leading and trailing frame members with the horizontal brace members and intersect said horizontal brace members at an acute angle; and

opposing shafts coupled to and extending in opposite directions from the support frame, wherein the two shafts are offset from a centerline of the pallet construction.

- 14. (Original) The pallet construction of claim 13 wherein the pallet deck comprises a relatively flat plate member having an arcuate-shaped outer edge, an arcuate-shaped inner-edge concentric with said outer edge, a leading edge and a trailing edge configured so that said deck forms a truncated circular segment.
 - 15. (Canceled)
- 16. (Currently Amended) The pallet <u>constructions construction</u> of claim 13 wherein the area defined by the elongated slots comprises from about 25% to about 40% of the surface area of the pallet deck.
- 17. (Currently Amended) An annular cooler having a conveyor system forming a gas permeable surface for supporting and transporting material during cooling thereof, the conveyor system comprising:

inner and outer rail members, and

a plurality of aligned pallet constructions supported by the inner and outer rail members and movable along a circular path defined by the inner and outer rail members,

wherein each of the plurality of aligned pallet constructions comprises a pallet deck having a series of substantially parallel rows of spaced apart elongated slots, each of the slots in a row being staggered with respect to the slots in an adjacent row in the series, wherein the slots define apertures through the pallet deck, and a support frame supporting the pallet deck-and having at least one angular brace oriented at an acute angle with respect to the rows of slots, the support frame includes a framework comprised of an arcuate-shaped outer frame member, an arcuate-shaped inner frame member concentric with outer frame member, a leading frame member extending between the outer frame member and the inner frame member, a trailing frame member extending between the outer frame member and the inner frame member, a plurality of spaced apart horizontal brace members disposed between the leading and trailing frame member, and a plurality of angular cross braces which interconnect the inner, outer, leading and trailing frame members at an acute angle.

- 18. (Original) The annular cooler of claim 17, wherein the elongated slots in each of the rows in the series are longitudinally aligned.
- 19. (Original) The annular cooler of claim 17, wherein the support frame comprises at least one horizontal brace member extending substantially transverse to the rows of slots.
 - 20. (Canceled)
- 21. (Currently Amended) The annular cooler of claim 17, wherein <u>each of</u> the <u>support frame further comprises a plurality</u> of horizontal brace members <u>extending</u> <u>extends</u> substantially transverse to the rows of slots and <u>aeach of the plurality</u> of angular brace members <u>each intersecting intersects</u> with at least one of the horizontal brace members.

- 22. (Original) The annular cooler of claim 17, wherein the first and second rail members comprise inner and outer concentric annular rail members which support the support frame.
- 23. (Original) The annular cooler of claim 17, further comprising opposing shafts coupled to the support frame, the opposing shafts coupling the support frame to the inner and outer rail members, respectively.